

New Work Item Review

XML representation for EXPRESS-driven data

This document provides responses to the NWI review process initiated at the Bad Aibling meeting for the proposed NWI on XML representation for EXPRESS-driven data

1 General Scope of the NWI(Required on ISO Form 4)

Representation according to the syntax of Extensible Markup Language (XML) of data defined using ISO 10303-11 (the EXPRESS language) and/or for EXPRESS schemas. The mappings from the EXPRESS language to the syntax of the representation are specified. Any EXPRESS schema or schemas and the data they describe can be represented.

2 Form(s) of resulting work

2.1 *Standard, Technical Report, New part of an existing Standard, revision to an existing standard or part, or an amendment to an existing standard or part.*

The NWI will result in a new part of ISO 10303.

2.2 *If the work will produce a new part for one of the existing SC4 standards, which part series will it fit into (i.e. for STEP is it an Application Protocol-2xx, an Integrated Generic Resource-4X, etc.)*

The new part will logically become part of the 20 series (Implementation methods).

3 Dependency on other standards/parts

3.1 *What are the Normative References?*

The anticipated significant normative reference is to ISO 10303-11 and to the W3C specification for XML. Other parts may be used for terminology, etc. It is anticipated that these could include Parts 1, 21, 22 and 12.

3.2 *Will Normative References be stable(DIS or better) when this work becomes IS?*

All the parts listed above are stable excepting the new edition of part 11. For the present, the objective is to work on the basis of the existing Part 11. A technical annex may be included, to address additional features in the new version of Part 11.

The relationship to the revised part 21 will be subject to review but it should be complementary to this NWI.

3.3 *Will changes be required to other standards/parts for this work to become IS?*

None anticipated at present.

3.4 *Is there a need for any NWI's for this work to become IS?*

None anticipated at present.

4 Impact of this work

4.1 *Who will benefit from the creation of this standard?*

Users of web technology tools who wish to access/browse or link to product data. Organizations and users of document systems who wish to access product data or transfer product data into their document-based systems.

Producers and users of SML/XML product documentation.

4.2 Who are the implementors of the standard?

The EXPRESS toolkit vendors. SGML/XML tools already exist which are capable of handling result (as demonstrated in Bad Aibling).

4.3 Who will purchase software based on this standard?

The owners of STEP data who wish to make it available via the intranet or World Wide Web. Almost everyone with a web-browser will be able to access Product Data using this standard.

4.4 Will other standards/parts be improved by this work?

It may provide technical input to the revision of part 21. It may also provide a route to improved upward compatibility for data transfer.

5 Schedule

5.1 Estimated schedule

It is anticipated that some funding will be available to support preparation of the initial CD. Therefore the schedule is for a CD approximately nine months after approval of the NWI.

5.2 Schedule of critical dependencies

The main dependency is probably that of the W3C developments under the banner of the XML Schema WG. However this is a very fast activity (when compared to ISO processes). The NWI activity will submit requirements to the XML Schema WG.

5.3 Risk management plan

6 Relationship with other projects

6.1 What other projects(IEC, ISO, Consortia) should this work be coordinated?(Required on ISO Form 4)

W3C XML Schema WG.
ISO/IEC JTC1 SC34

6.2 Is there any overlap in scope with existing work?

The SGML/XML community is looking at schema languages. The NWI will include an XML capability for EXPRESS schemas and this element therefore overlaps. The NWI activity will submit requirements to the XML Schema WG and will draw on their work to the extent that it succeeds in meeting the requirements and is completed within an appropriate time frame.

6.3 List relevant organizations with which cooperation and liaison should exist(Required on ISO Form 4)

W3C

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